

a belt structure between the toroidal carcass and the tread band, axially extending between the sidewalls;

wherein the tread band comprises at least first and second circumferential axially-contiguous portions,

wherein the first portion is formed of a first composition comprising a first reinforcing filler including white filler and carbon black,

wherein the first reinforcing filler includes at least 40%-by-weight carbon black,

wherein the second portion is formed of a second composition comprising a second reinforcing filler including white filler,

wherein the second reinforcing filler includes at least 20%-by-weight white filler,

wherein the first composition is different from the second composition, and

wherein a difference of compositions between the at least first and second portions achieves a tyre operating temperature lower than a reference temperature.

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48. (new) The tyre of claim 47, wherein the first reinforcing filler includes no more than 60%-by-weight white filler.

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49. (new) The tyre of claim 47, wherein the first reinforcing filler includes about 32%-by-weight white filler.

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50. (new) The tyre of claim 47, wherein the first reinforcing filler includes at least about 32%-by-weight white filler.

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~~2651. (new) The tyre of claim 47, wherein the first reinforcing filler includes between 32%-by-weight white filler and 60%-by-weight white filler.~~

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~~2752. (new) The tyre of claim 47, wherein an amount of white filler in the second reinforcing filler is at least 20%-by-weight greater than an amount of white filler in the first reinforcing filler.~~

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~~2853. (new) The tyre of claim 47, wherein the at least first and second portions each pass through an entire radial thickness of the tread band.~~

~~2954. (new) The tyre of claim 47, wherein the at least first and second portions are not radially-contiguous portions.~~

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~~3055. (new) A tyre for a wheel of a vehicle, comprising:~~

~~a toroidal carcass provided with axially-opposite sidewalls and beads for anchoring the tyre to a rim of the wheel;~~

~~a tread band radially-external to the toroidal carcass, comprising a surface with a plurality of hollows and grooves defining a tread pattern; and~~

~~a belt structure between the toroidal carcass and the tread band, axially extending between the sidewalls;~~

~~wherein the tread band comprises at least first and second circumferential axially-contiguous portions,~~

wherein the first portion is formed of a first composition comprising a first reinforcing filler including white filler and carbon black,

wherein the first reinforcing filler includes at least 40%-by-weight carbon black,

wherein the second portion is formed of a second composition comprising a second reinforcing filler including white filler,

wherein the second reinforcing filler includes at least 20%-by-weight white filler,

wherein the first composition is different from the second composition, and

wherein the first reinforcing filler includes an amount of white filler effective to achieve a tyre operating temperature lower than a reference temperature.

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31 56. (new) The tyre of claim 55, wherein the first reinforcing filler includes no more than 60%-by-weight white filler.

32 57. (new) The tyre of claim 55, wherein the first reinforcing filler includes about 32%-by-weight white filler.

33 58. (new) The tyre of claim 55, wherein the first reinforcing filler includes at least about 32%-by-weight white filler.

34 59. (new) The tyre of claim 55, wherein the first reinforcing filler includes between 32%-by-weight white filler and 60%-by-weight white filler.